

PTO/SB/08a (05-07)

Approved for use through 09/30/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>( Not for submission under 37 CFR 1.99)</small>	Application Number	10718913
	Filing Date	2003-11-21 <b>FAX RECEIVED</b>
	First Named Inventor	McBean, John M.
	Art Unit	3764 <b>OCT 16 2007</b>
	Examiner Name	Brown, Michael A. <b>OFFICE OF PETITIONS</b>
	Attorney Docket Number	1118/A04

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/MB/	1	3631542		1972-01-04	Iowa State University Research Foundation	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T5
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.				T5
						<input type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>( Not for submission under 37 CFR 1.99)</small>	Application Number	10718913	
	Filing Date	2003-11-21	<b>FAX RECEIVED</b>
	First Named Inventor	McBean, John M.	
	Art Unit	3784	OCT 16 2007
	Examiner Name	Brown, Michael A.	<b>OFFICE OF PETITIONS</b>
	Attorney Docket Number	1118/A04	

	1		<input type="checkbox"/>
If you wish to add additional non-patent literature document citation information please click the Add button			
<b>EXAMINER SIGNATURE</b>			
Examiner Signature	/Michael Brown/	Date Considered	01/21/2008
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
<small> <sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="http://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 801.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.         </small>			

**LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS'  
INFORMATION DISCLOSURE STATEMENT**

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/718,913
		Filing Date	November 21, 2003
		Inventor	McBean et al
		Art Unit	3772
		Examiner	Brown, Michael
		Atty Docket	1118/A04

<b>Non-Patent References</b>		
Examiner's Initials	Ref. No.	Document Number, Publication Date, Inventor
/MB/	BQ	Lum, et al., "A Robotic System for Upper-Limb Exercises to Promote Recovery of Motor Function Following Stroke", ICORR '99: International Conference on Rehabilitation Robotics, Stanford, CA, pages 235-239
/MB/	BR	Lum, et al., "Quantification of Force Abnormalities During Passive and Active-Assisted Upper-Limb Reaching Movements in Post-Stroke Hemiparesis", 1999, IEEE Trans on Biomed, Vol 46, No 6, pages 652-662
	BS	Lum, et al., "Robotic Assist Devices for Bimanual Physical Therapy Preliminary Experiments", 1993, IEEE Transactions on Rehabilitation Engineering, Vol. 1, No. 3, pages 185-191
	BT	Parsons, et al., "An Adaptable User Interface and Controller for a Rehabilitation Robotoc Arm, 1997, ICAR, pages 919-923
	BU	Popovic, et al., "Hybrid Assistance System-The Motor Neuroprosthesis", 1989, IEEE Transactions on Biomedical Engineering, Vol. 36, No. 7, pages 729-737
	BV	Rabischong, et al., "Control and Command of a Six Degrees of Freedom Active Electrical Orthosis for Paraplegic Patent", 1990, IEEE International Workshop on Intelligent Robots and Systems, pages 987-991
	BW	Reinkensmeyer, et al., "Guidance-Based Quantification of Arm Impairment Following Brain Injury: A Pilot Study", 1999, IEEE Transactions on Rehabilitation Engineering, Vol 7, No. 1, pages 1-11
↓	BX	Romilly, et al., "A Functional Task Analysis and Motion Stimulation for the Development of a Powered Upper-Limb Orthosis", 1994, IEEE Transactions on Rehabilitation Engineering, Vol. 2, No 3, pages 119-129

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/718,913
		Filing Date	November 21, 2003
		Inventor	McBean et al
		Art Unit	3772
		Examiner	Brown, Michael
		Atty Docket	1118/A04

Non-Patent References		
Examiner's Initials	Ref. No.	Document Number, Publication Date, Inventor
/MB/	BY	Timoszyk, et al., "Robot-Assisted Locomotion Training after Spinal Cord Injury – Comparison of Rodent Stepping in Virtual and Physical Treadmill Environments", Department of Mechanical and Aerospace Engineering and Center for Biomedical Engineering, University of California, Irvine, 1990 IEEE International Conference, pages 1-14
	BZ	Triolo, et al., "The Theoretical Development of a Multichannel Time-Series Myoprocessor for Simultaneous Limb Function Detection and Muscle Force Estimation", 1989, IEEE Transactions on Biomedical Engineering, Vol. 36, No. 10, pages 1004-1017
	CA	Wu, et al., "A Study of Neuromuscular-like Control in Rehabilitation Robot", Proceedings of the 1996 IEEE International Conference on Robotics and Automation, Minneapolis, MN, 0-7803-2988-4/96, April 1996, pages 1178-1183
↓	CB	Zardoshti-Kermani, et al., "EMG Feature Evaluation for Movement Control of Upper Extremity Prostheses", 1995, IEEE Transactions on Rehabilitation Engineering, Vol. 3, No. 4, pages 324-333

Examiner Signature: /Michael Brown/

Date Considered: 01/21/2008

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw a line through the citation if *not* in conformance and not considered. Include copy of this form with next communication to applicant.

Appl. No.: 10/718,913  
Date: November 7, 2007

**LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS'  
INFORMATION DISCLOSURE STATEMENT**

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application Number	10/718,913
	Filing Date	November 21, 2003
	Inventor	McBean et al
	Art Unit	3772
	Examiner	Brown, Michael
	Atty Docket	1118/A04

<b>U.S. Patent Documents</b>					
Examiner's Initials	Ref. No.	Document No.	Issue Date	Inventor	Class
/MB/	BA	3,769,636	11-1973	Friedman	623/24
	BB	5,112,296	05-1992	Beard et al.	602/28
	BC	5,835,005	11-1998	Furukawa et al.	370/400
	BD	5,888,212	03-1999	Petrofsky et al.	623/24
↓	BE	6,616,579	09-2003	Reinbold et al.	482/91

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application Number	10/718,913
	Filing Date	November 21, 2003
	Inventor	McBean et al
	Art Unit	3772
	Examiner	Brown, Michael
	Atty Docket	1118/A04

<b>U.S. Patent Publication Documents</b>					
Examiner's Initials	Ref. No.	Document No.	Publication Date	Inventor	Class
/MB/	BF	2002/0169402	11-2002	Hatton et al.	602/26
/MB/	BG	2003/0212356	11/13/2003	Scorvo	602/20

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/718,913
		Filing Date	November 21, 2003
		Inventor	McBean et al
		Art Unit	3772
		Examiner	Brown, Michael
		Atty Docket	1118/A04

Non-Patent References		
Examiner's Initials	Ref. No.	Document Number, Publication Date, Inventor
/MB/	BH	Abul-Haj, et al., "Functional Assessment of Control Systems for Cybernetic Elbow Prostheses – Part II: Application of the Technique", 1990, IEEE Transactions on Biomedical Engineering, Vol. 37, No. 11, pages 1037-1047
	BI	Bowen, et al., "Surface EMG and Motor Control of the Upper Extremity in Muscular Dystrophy: A Pilot Study", 2002, IEEE Bioengineering Conf., pages 289-290
	BJ	Downes, et al., "Distributed Control of an Electronically Powered Hip Orthosis", 1994, IEE Control Conference, pages 24-30
	BK	Fukuda, et al., "EMG-Based Human-Robot Interface for Rehabilitation Aid", Proceedings of the 1998 IEEE International Conference on Robotics and Automation, pages 3492-3497
	BL	Harwin, et al., "Criteria for Interfacing and Control of a Powered Upper Extremity Orthosis", RERC on Rehabilitation Robotics Applied Science and Engineering Laboratories, University of Delaware/A.I. DuPont Institute, Rehabilitation R&D Progress reports, 1995, Vol. 33, pg. 215
	BM	Kawamura, et al., "A Design of Motion-Support Robots for Human Arms using Hexahedron Rubber Actuators", 1997, IROS, IEEE, pages 1520-1526
	BN	Kazerooni, "Stability and Performance of Robotic Systems Worn by Humans", University of Minnesota, Mechanical Engineering Dept., May 13-18, 1990 IEEE, Vol. 1, pages 558-563,
	BO	Kiguchi, et al., "An Exoskeleton System for Elbow Joint Motion Rehabilitation", Proceedings of the 2003 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2003), pages 1228-1233
↓	BP	Lee, et al., "A New Exoskeleton-type Masterarm with Force Reflection: Controller and Integration", 1999, IEEE/RSJ International Conference on Intelligent Robots and Systems, pages 1438-1443

Appl. No.: 10/718,913  
Date: November 7, 2007

Examiner Signature: /Michael Brown/

Date Considered: 01/21/2008

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw a line through the citation *if not* in conformance and not considered. Include copy of this form with next communication to applicant.